

WHAT WE CLAIM IS:

1. An outside handle device for a vehicle door, comprising:
a handle main body provided at the outside of the vehicle door for
5 accommodating an electrical component;
a handle frame fixed to the vehicle door for supporting the handle main body;
a first connector provided at a vehicle body side and electrically connected
with an electric signal cable at the vehicle body side; and
a second connector provided at the handle main body and electrically
10 connected with the electric component accommodated in the handle main
body; wherein

the electric power is supplied from the first connector to the second connector
with non-contacting condition, and a wireless signal transmission is carried
15 out between the first connector and the second connector using the vehicle
body side signal transmission device and the handle main body side signal
transmission device.

2. An outside handle device for a vehicle door according to claim 1, the
20 first connector includes a primary coil to supply an electric power and a
vehicle body side signal transmission device.

3. An outside handle device for a vehicle door according to claim 1, the
second connector includes a secondary coil to receive the electric power and a
25 handle main body side signal transmission device.

4. An outside handle device for a vehicle door according to claim 1, the
first connector and the second connector are placed with predetermined
distance when the handle main body is assembled in the handle frame.
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5. A connector provided at a vehicle body side and a handle main body
assembled to handle frame, supplying electric power and transmitting signal
between the vehicle body side and the handle side,
comprising:
35 a first connector comprising a primary coil for supplying the electric power
and a vehicle body side signal transmission device, attachable to designated

place of the vehicle body side;

a second connector comprising a secondary coil for accepting the electric power and a handle main body side signal transmission device, attachable to designated place of the handle main body; wherein

- 5 the first connector and the second connector are placed with a predetermined distance when the handle main body is assembled in the handle frame; and the electric power is supplied from the first connector to the second connector with non-contacting condition using the primary coil and the secondary coil, and a wireless signal transmission is carried out between the first connector
10 and the second connector using the vehicle body side signal transmission device and the handle main body side signal transmission device.

6. A connector used for an outside handle device according to claim 2, wherein the vehicle body side signal transmission device and the handle
15 main body side signal transmission device transmit signal each other with infrared signal, the handle main body side signal transmission device comprising at least an emitting device, and the vehicle body side transmission device comprising at least an acceptance device.

- 20 7. A connector used for an outside handle device according to claim 3, further comprising an electric power acceptable an additional secondary coil presented on a door glass put between the first connector and the second connector with non-contacting condition and presented at corresponding position to the primary coil and the secondary coil when the first connector is
25 attached to the vehicle body side and the second connector is attached to the handle side, and a operating condition indicator illuminated by a electric power accepted at the additional secondary coil.

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